

[https://en.wikipedia.org/wiki/Massive\\_open\\_online\\_course](https://en.wikipedia.org/wiki/Massive_open_online_course)

# MOOCS?

- Conducted over 6 weeks or so.
- Trending towards starting any time.
- Video lectures typically 15 minutes. Several per week.
- Some digital exercises untouched by human hand
- Extensive encouragement for forums and networking
- A final project which may be uploaded as pdf or audio or some other form. Part of the final assessment is peer assessment of typically three other projects. Rubrics are provided.
- 20 -25 hours of lectures and testing all up
- Thirteen different languages, 80% English, 8.5% Spanish.



# The flipped classroom

*"Flipping" a class 2015, viewed 24/2/16,*

<https://learningsciences.utexas.edu/teaching/flipping-a-class>

## Arguments for the flipped classroom

Students learn more deeply

Students are more active participants in their learning

Interaction increases as students learn from one another

Teachers and students get more feedback





400+ universities. 2400+ courses. 16-18 million students.

*MOOCs in 2014: breaking down the numbers 2014*, viewed 22 Feb 2016, <<https://www.edsurge.com/news/2014-12-26-moocs-in-2014-breaking-down-the-numbers>>

Provider	# of Students
Coursera	10.5M
edX	3M
Udacity	1.5M
MiriadaX	1M
FutureLearn	800k

TOP 5 Providers

*MOOCs in 2014: breaking down the numbers 2014*, viewed 22 Feb 2016, <<https://www.edsurge.com/news/2014-12-26-moocs-in-2014-breaking-down-the-numbers>>

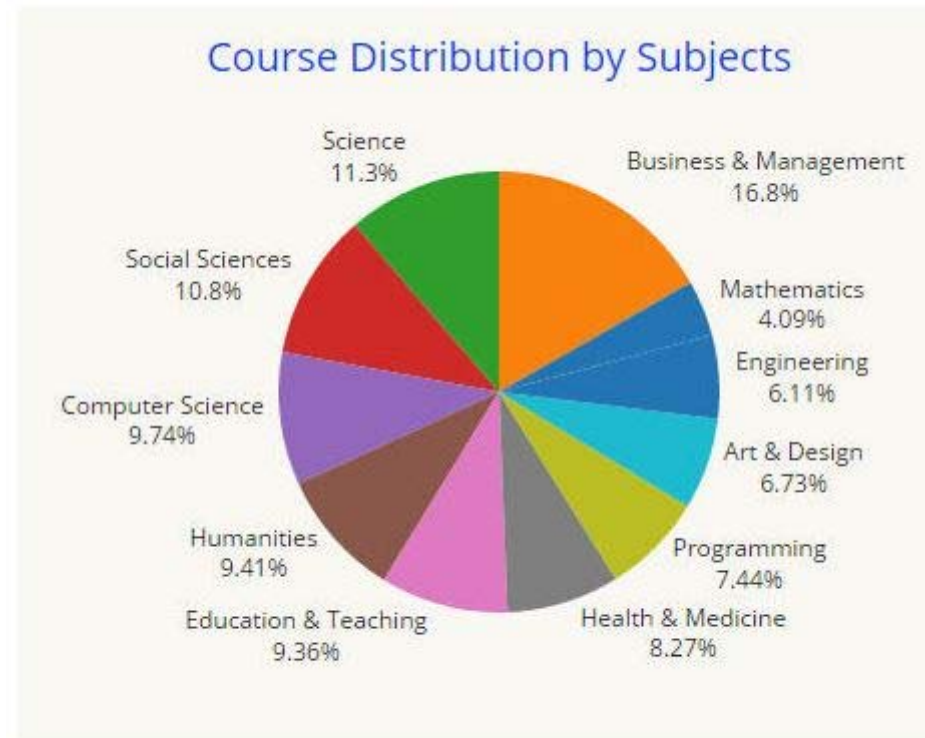
Plus Mooc-list

<https://www.mooc-list.com/>

Khan Academy

<https://www.khanacademy.org/>





*Fig 1: Distribution of Courses (from Class Central)*

*Use Of MOOCs And Online Education Is Exploding: Here's Why*  
2016, viewed 22/2/16,  
<<http://www.forbes.com/sites/joshbersin/2016/01/05/use-of-moocs-and-online-education-is-exploding-heres-why/#3e0fd31f7f09>>

My experience:

Tasted many, finished some:

Philosophy at Edinburgh

Logic at Duke

Music theory at Berklee

Jazz improvisation at Berklee

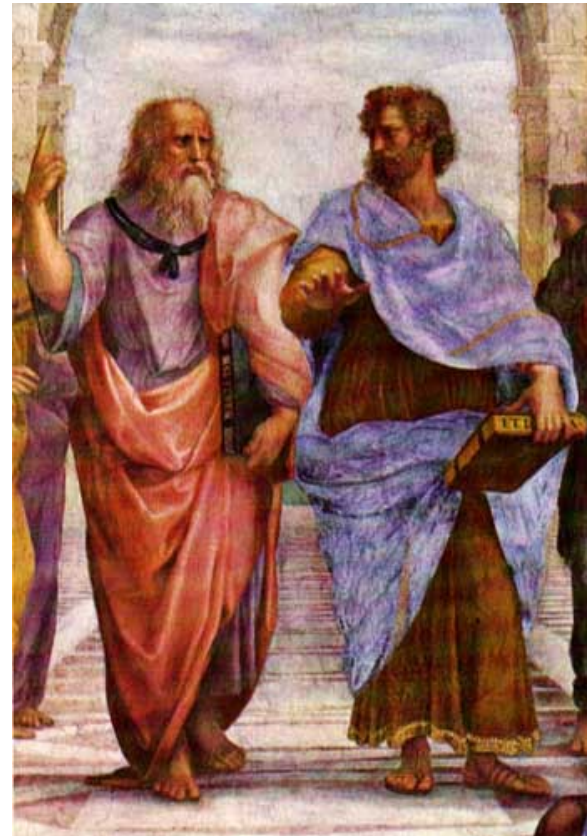
Songwriting at Berklee

Critical thinking at Edinburgh

Creativity at New York

Film at Copenhagen

And so on....



**Teacher Librarian examples...**

**The Emerging Future: Technology Issues and Trends (Canvas.net)**

**Leading the Digital Learning Transition: Creating Future Ready Schools (MOOC-Ed)**

**Teaching Literacy Through Film (FutureLearn)**

**Copyright for Educators & Librarians (Coursera)**

**DIY Media and Information Literacy (ECO Project)**

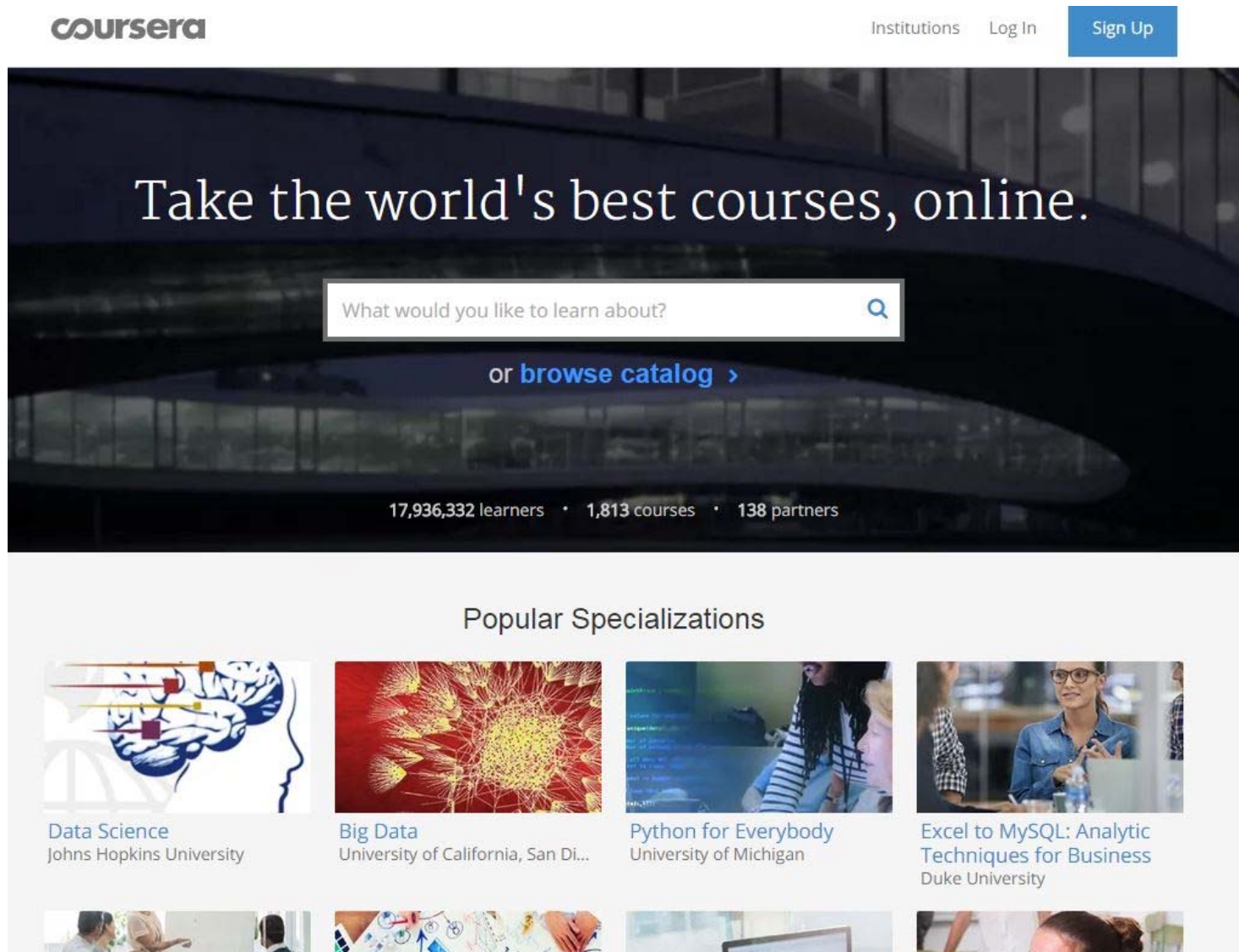
**Teaching Library Research Strategies (Canvas.net)**

**Library Advocacy Unshushed (edX)**

**Emerging Trends & Technologies in the Virtual K-12 Classroom (Coursera)**



# Coursera <<https://www.coursera.org/>>




The screenshot shows the Coursera homepage. At the top, the Coursera logo is on the left, and links for "Institutions", "Log In", and a blue "Sign Up" button are on the right. The main banner features a dark background with a building's interior. The text "Take the world's best courses, online." is centered. Below it is a search bar with the placeholder text "What would you like to learn about?" and a magnifying glass icon. Under the search bar is the text "or [browse catalog](#) >". At the bottom of the banner, it says "17,936,332 learners • 1,813 courses • 138 partners". Below the banner is a section titled "Popular Specializations". It contains four cards, each with a thumbnail image, a title, and the university name. The first card is for "Data Science" by Johns Hopkins University, featuring a brain with circuitry. The second is for "Big Data" by the University of California, San Diego, featuring a network diagram. The third is for "Python for Everybody" by the University of Michigan, featuring a person coding. The fourth is for "Excel to MySQL: Analytic Techniques for Business" by Duke University, featuring a person in a business setting. Below these cards are four more thumbnail images without text labels.

**coursera**

Institutions Log In [Sign Up](#)

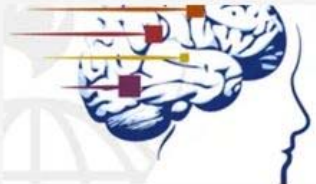



Take the world's best courses, online.





What would you like to learn about? 

or [browse catalog](#) >

17,936,332 learners • 1,813 courses • 138 partners

### Popular Specializations

Specialization	University
 Data Science	Johns Hopkins University
 Big Data	University of California, San Di...
 Python for Everybody	University of Michigan
 Excel to MySQL: Analytic Techniques for Business	Duke University

# Udemy

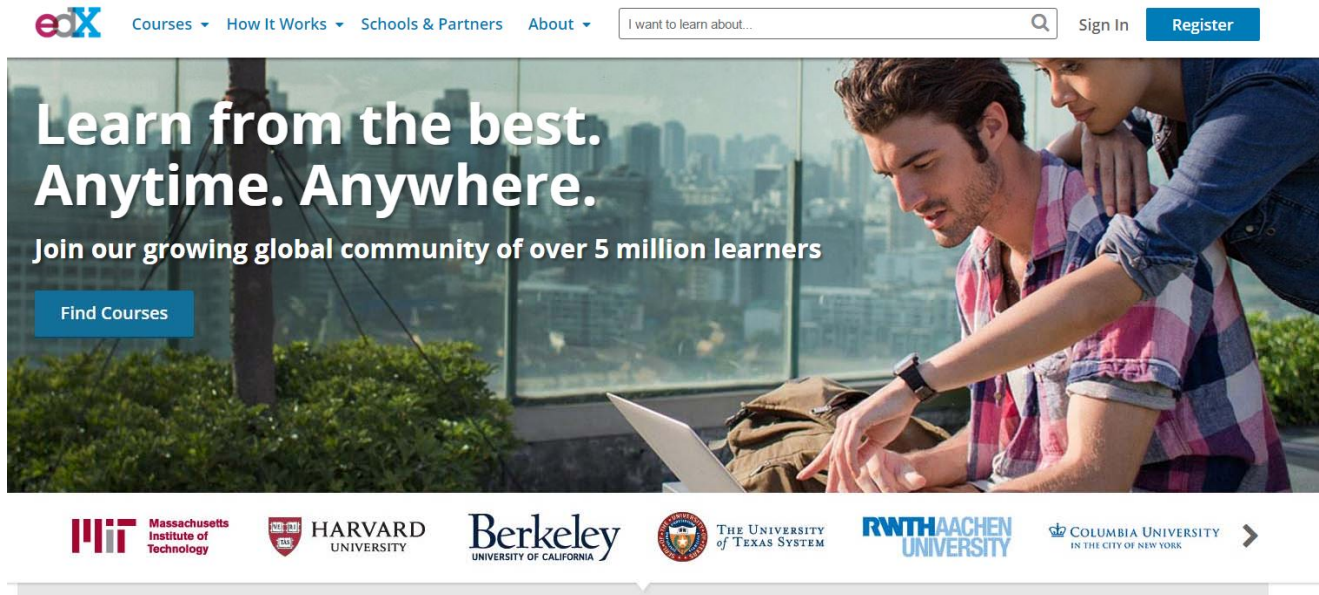
<https://www.udemy.com/>

The screenshot shows the Udemy homepage. At the top is a green header with navigation links: 'Browse Courses', 'Search for Courses' (with a magnifying glass icon), the 'udemy' logo, 'Become an Instructor', and 'My Courses' (with a user profile icon). Below the header is a hero banner with a dark background showing people working at computers. The Udemy logo is centered in green, with the tagline 'Your place to learn real-world skills online.' in white below it. A green promotional banner reads 'Use the code START19 to get the deal!'. Below this is a category filter bar: 'View By Category: All | Web Dev | Business | Design | Marketing | Office Productivity | Personal Development'. The main content area displays a grid of 12 course cards. Each card includes a thumbnail image, the course title, a brief description, the price, the number of reviews (with a star rating), and the number of students.

Course Title	Price	Reviews	Students
The Complete Web Developer Course - Build 14 Websites	\$199	1,507 Reviews (5 stars)	33.5K
Learn Photoshop, Web Design & Profitable Freelancing	\$499	124 Reviews (5 stars)	10.2K
The Complete iOS 7 Course - Learn by Building 14 Apps	\$499	201 Reviews (5 stars)	32K
YouTube Secrets: How I Make \$2,000 A Month - And No Filming!	\$499	114 Reviews (5 stars)	12.7K
30 Day Yoga Challenge & Detox Diet Transformation System	\$97	51 Reviews (5 stars)	4.9K
Cisco CCNA (200-120): The Complete Course	\$399	4 Reviews (5 stars)	1.6K
Become a Web Developer from Scratch!	\$199	539 Reviews (5 stars)	43.8K
Become an Android Developer from Scratch	\$297	15 Reviews (5 stars)	1.9K
Quicklessons Piano Course - Learn to Play Piano by Ear!	\$197	10 Reviews (5 stars)	2.9K
Advanced Microsoft Excel 2013. Online Excel Training Course	\$99	23 Reviews (5 stars)	25.5K
Body Language of Love and Dating	\$149	5 Reviews (5 stars)	955
Build a Website from Scratch with HTML & CSS	\$149	101 Reviews (5 stars)	29.5K

# EdX

<https://www.edx.org/>



The image shows the top section of the EdX website. At the top is a navigation bar with the EdX logo, links for Courses, How It Works, Schools & Partners, and About, a search bar with the placeholder text "I want to learn about...", and buttons for Sign In and Register. Below this is a large banner featuring a photograph of two students looking at a laptop. The banner contains the text "Learn from the best. Anytime. Anywhere." and "Join our growing global community of over 5 million learners", along with a "Find Courses" button. At the bottom of the banner is a row of logos for partner institutions: MIT, Harvard University, Berkeley University of California, The University of Texas System, RWTH Aachen University, and Columbia University.

edX Courses ▾ How It Works ▾ Schools & Partners About ▾ I want to learn about... Sign In Register

**Learn from the best.  
Anytime. Anywhere.**

Join our growing global community of over 5 million learners

Find Courses

**MIT** Massachusetts Institute of Technology **HARVARD** UNIVERSITY **Berkeley** UNIVERSITY OF CALIFORNIA **THE UNIVERSITY of TEXAS SYSTEM** **RWTH AACHEN** UNIVERSITY **COLUMBIA UNIVERSITY** IN THE CITY OF NEW YORK

# Why MOOCs are building

Bandwidth and ease of access to content on any device

Freemium business models: no charge although you may pay for credentials and integrated offerings

Value of education is higher than ever: lifelong learning and upskilling.

Great content available.

Cost-effective: relatively easy to create and replicate.

Great recruitment tool

*Use of MOOCs and online education is exploding: here's why 2016*, viewed 23/2/2016, <<http://www.forbes.com/sites/joshbersin/2016/01/05/use-of-moocs-and-online-education-is-exploding-heres-why/#3e0fd31f7f09>>





# Goals of universities in developing MOOCs

Table ES 1: Institutional Goals for Developing and Delivering or Using MOOCs

Institutional Goal	% of institutions offering /using MOOCs stating this as a goal (n=29)*	% of all interviewees who raised this as a goal (n=83)
Extending Reach and Access	65%	42%
Building and Maintaining Brand	41%	25%
Improving Economics	38%	29%
Improving Educational Outcomes	38%	20%
Innovation	38%	19%
Research on Teaching and Learning	28%	18%

\* Includes one museum in addition to the universities and colleges.

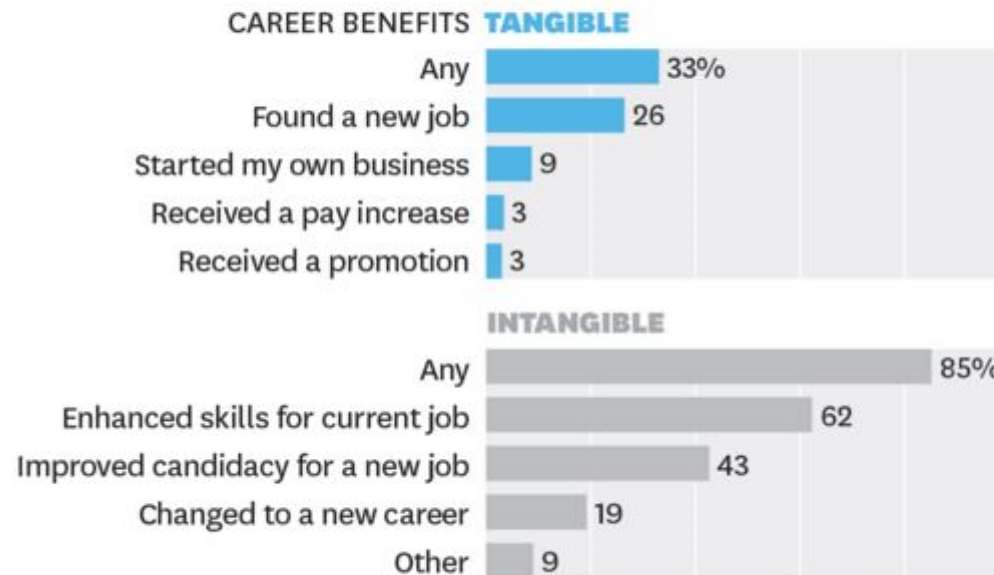
'MOOCs: Expectations and Reality' (Hollands & Tirthali, p 8)

*How and why institutions are engaging with MOOCs 2014*, viewed 23/2/16, <<https://onlinelearninginsights.wordpress.com/tag/costs-of-developing-a-mooc/>>

# Why people do MOOCs

## The Career Benefits of MOOCs

As reported by those who stated career benefits as their primary reason for completing a MOOC.



SOURCE COURSERA SURVEY DATA

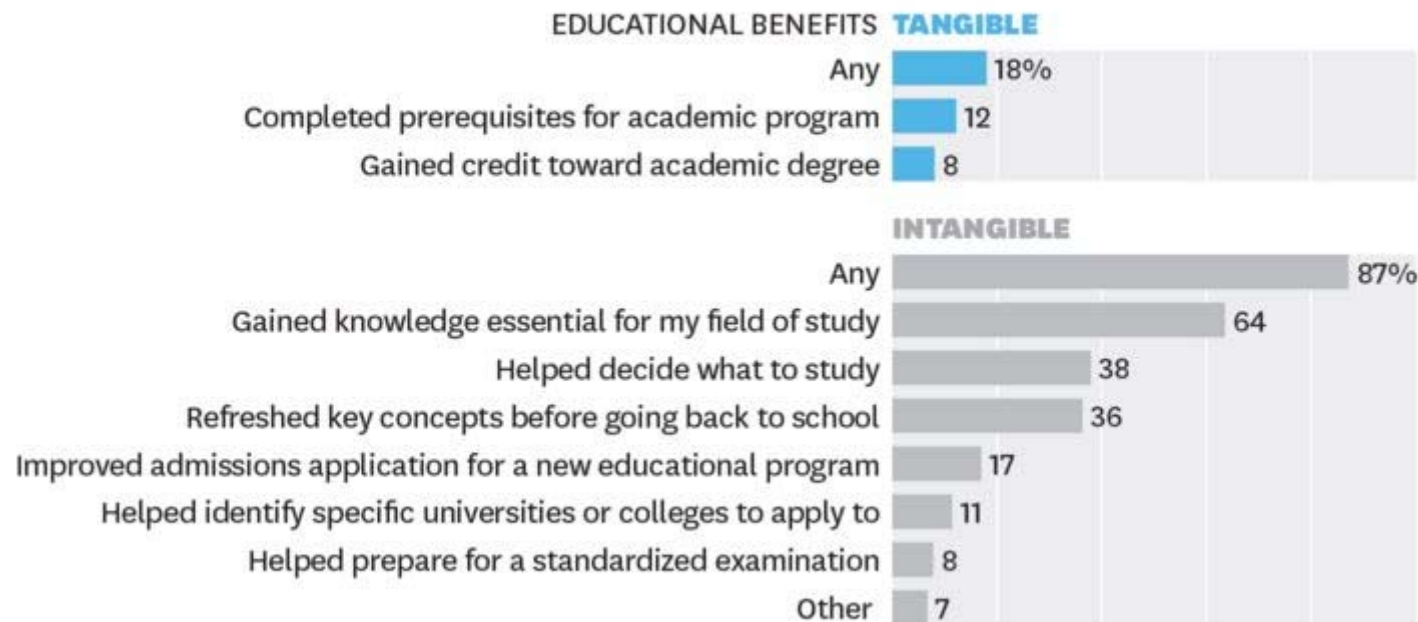
© HBR.ORG

Zhenghao, Chen et al 2015, *Who's benefiting from MOOCs, and why*, viewed 29/02/2016, <<https://hbr.org/2015/09/whos-benefiting-from-moocs-and-why>>

# Why people do MOOCs

## The Educational Benefits of MOOCs

As reported by those who stated educational benefits as their primary reason for completing a MOOC.



SOURCE COURSERA SURVEY DATA

© HBR.ORG

Zhenghao, Chen et al 2015, *Who's benefiting from MOOCs, and why*, viewed 29/02/2016, <<https://hbr.org/2015/09/whos-benefiting-from-moocs-and-why>>

# Some arguments against MOOCs

Failing to engage students in effective pedagogical practices

Denying students mentoring experiences with scholars passionate about their research

Lacking the rigour of an on-campus curriculum

Providing at best superficial and narrowly defined training rather than deep understanding

Serving as an attempt to replace faculty

*Five myths about MOOCs* 2013, viewed 22/2/16.  
<<http://er.educause.edu/articles/2013/10/five-myths-about-moocs>>





# Local MOOCs

## ANUx

[Back to schools and partners](#)


Free online courses from Australian National University

The Australian National University (ANU) is a celebrated place of intensive research, education and policy engagement. Our research has always been central to everything we do, shaping a holistic learning experience that goes beyond the classroom, giving students access to researchers who are among the best in their fields and to opportunities for development around Australia and the world.

[+ See more](#)


### Australian National University MOOCs

Browse free online courses in a variety of subjects. Australian National University courses found below can be audited free or students can choose to receive a verified certificate for a small fee. Select a course to learn more.



**Astrophysics**  
Learn contemporary astrophysics from the leaders in the field.

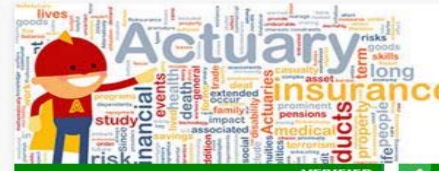
ANUx  
Current



ANUx  
ANU-ASTRO4x

**Astrophysics: Cosmology**

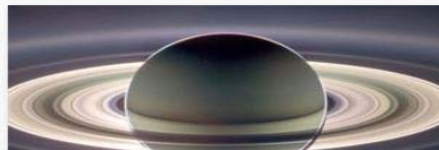
Upcoming  
Starts: May 10, 2016



ANUx  
ANU-ActuarialX

**Introduction to Actuarial Science**

Current  
Self-Paced





## Sport Informatics and Analytics

What can data tell us about performance in sport? Join our learning community, supported by sport performance experts from around the globe, to explore and share ideas and experiences around measuring and analysing performance data.



UNIVERSITY OF  
CANBERRA



## Biometric Technologies: Identification for the Future

Ended Oct 11, 2015

Sorry! The enrollment period is currently closed. Please check back soon.

[Watch](#)[Discover](#)[Attend](#)[Participate](#)[About](#)

Pause



Volume

Filmed June 2013 at TED2013

Anant Agarwal: Why massive open online courses (still) matter



Subt

[http://www.ted.com/talks/anant\\_agarwal\\_why\\_massively\\_open\\_online\\_courses\\_still\\_matter?language=en](http://www.ted.com/talks/anant_agarwal_why_massively_open_online_courses_still_matter?language=en)